



THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine

of

B.P. Poddar Institute of Management and Technology

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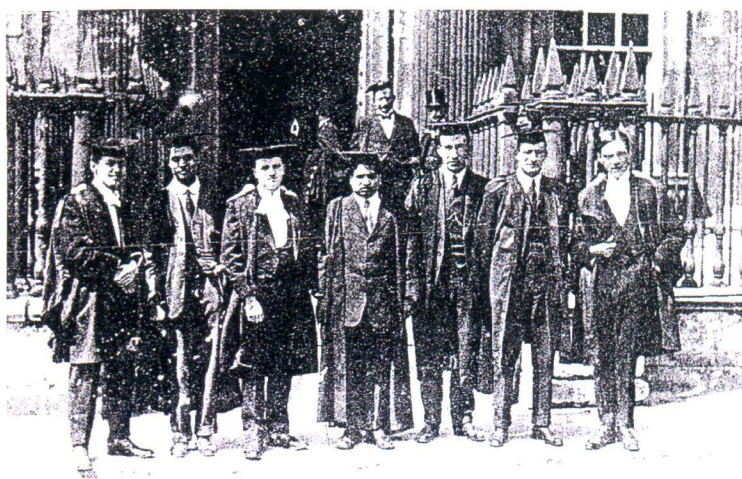
Issue - XIII, OCTOBER 2011 Chief Advisors: Prof (Dr.) Sutapa Mukherjee Editor in Chief: Prof Emeritus (Dr) S.C. Chakravartty
Prof (Dr) B. N. Chatterjee



REMEMBERING SRINIVASA RAMANUJAN – THE MATHEMATICAL GENIUS



Srinivasa Ramanujan



Ramanujan (centre) together with Godfrey Harold Hardy (extreme right) and other scientists at Trinity College at the University of Cambridge.

Srinivasa Ramanujan the great Mathematician became world famous at the age of twenty six. He was born at Erode in Tamil Nadu on 22 December 1887. Ramanujan could not complete his college education because of illness. He was so interested in mathematics that he learned on his own. He found out new formulae for solving mathematical problems and wrote articles about them. In January 1913, Ramanujan wrote to G. H. Hardy having seen a copy of his book Orders of Infinity. In Ramanujan's historic first letter to Hardy, he introduced himself and his work of about 100 theorems. In 1914, Hardy brought Ramanujan to Trinity College, Cambridge, to begin an extraordinary collaboration between two mathematicians. On 16 March, 1916 Ramanujan graduated from Cambridge with a Bachelor of Science by Research (the degree was called a Ph.D. from 1920). Ramanujan's dissertation was on Highly Composite Numbers which consisted of seven of his papers published in England. Ramanujan went on to publish 26 papers in British journals. On May 2, 1918, Srinivasa Iyengar Ramanujan was elected Fellow of the Royal Society of London. He was the first Indian and first Asian to be elected so. Srinivasa Ramanujan was one of India's greatest mathematical geniuses. He made substantial contributions to the analytical theory of numbers and worked on elliptic functions, continued fractions, and infinite series. Ramanujan's work on partial sums and products of hypergeometric series led to major developments in the topic. He gave his name to two constants, the Landau-Ramanujan constant and the Nielsen-Ramanujan constant. Ramanujan died on April 26, 1920 at the age of 33 in Kumbakonam, Tamil Nadu. Before he died, Ramanujan wrote down about 600 theorems on loose sheets of paper, which were discovered and published only in 1976 as the "Lost Notebook" of Ramanujan. The BPPIMT family pays homage and respect to this one of the greatest Mathematical geniuses of all times.

An equation means nothing to me unless it expresses a thought of God.

---Srinivasa Ramanujan.

I remember once going to see him when he was lying ill at Putney. I had ridden in taxi cab number 1729 and remarked that the number seemed to me rather a dull one, and that I hoped it was not an unfavorable omen. 'No' he replied, 'it is a very interesting number; it is the smallest number expressible as the sum of two cubes in two different ways.'

--- G. H. Hardy.

ACADEMIC NEWS:

Publications:

Journals:

Uddipan Mukherjee published a paper titled, "India and Iran: Can SCO serve as the common platform?" in the FPRC Journal, No.6, August 2011, pp 104-117.

Conference:

R. Goswami, S.C.Chakravarty, E.Bose, U.Mukherjee, P.Saha and P.Mondal published their paper titled, "Low Temperature DC conductivity of Graphite Kaolinite composite" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 65-69, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Arijit Saha, Kallol Bhattacharya and Ajoy Kumar Chakraborty published their paper titled, "A zero-order achromatic quarter-wave retarder" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 70-76, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Ivy Majumdar, Suvankar Das, Avirup, Avijit Kar and **B.N.Chatterji** published their paper titled, "Texture Matching of Gray Level Images Using Legendre Moment Technique" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 77-83, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

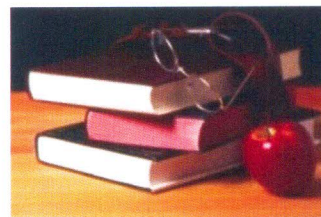
Surajit Mandal and Ajay Ghosh published their paper titled, "Imaging Characteristics of a Birefringent Lens in the Infrared Region" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 84-94, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Lipika Adhya published a paper titled, "Lasing Without Population Inversion" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp.



109-115, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

A. Sarkar and **P. Saha** published their paper titled, "A New Modulation and Coding Scheme for Free Space Optical Communication Using Turbo Coded BICM – ID with 16 QAM" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 95-98, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.



Arijit Saha, Kallol Bhattacharya and Ajoy Kumar Chakraborty published their paper titled, "A three-element variable retarder for infrared monochromatic light using crystalline quartz" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 116-122, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Surajit Mandal and Ajay Ghosh published their paper titled, "A Novel Technique for Computing the Polychromatic Optical Transfer Function of Optical Imaging Systems" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 123-129, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Kushan Chakraborty and Isha Das alumni of ECE dept. and **Shila Ghosh** published their paper titled, "Development of Colorimeter using Low Cost Optical Bridge" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 130-134, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Articles in Magazines:

Dr. Uddipan Mukherjee of the Department of Physics published 4 articles in various magazines and journals during July-Sep 2011.

INSTITUTIONAL NEWS:



Institutional Magazine

The first issue of the institutional magazine UDBHAV was inaugurated on 2nd June 2011. The magazine was inaugurated by our Director Dr. Subir Choudhury. The program was attended by the Principal, Dean, Registrar, all HODs, faculty members, administrative staffs and students. There was a lot of enthusiasm within all present in the event. Contributions from the faculty members, administrative staffs and from the students made the magazine a grand success.

Student Publications

Mohammad Wasim Sayed and **Nasibullah** students of ECE dept. published their paper titled, "Secured Data Communication Using PCM and Pseudo-Noise Generation" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 135-142, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Saatwik Katiha student of CSE dept. published a paper titled, "Implementation of an audio equalizer with user specified cutoff frequencies in MATLAB GUIDE using a peak filter" in the Proceedings of National Conference on Emerging Areas of Photonics and Electronics (EAPE 2011), pp. 99-108, organized by SPIE Chapter BPPIMT, Kolkata, on September 15-16, 2011.

Viswakarma Puja Celebration

Like previous years this year also the Viswakarma Puja celebration was held on 17th September. The event was organized by the students under the guidance of a committee of faculty members. On the day after the puja *prasada* distribution was held. There was a lot of enthusiasm within the students and all members of BPPIMT for the event. The deity immersion took place on the next day.

Commencement of odd semester

All B. Tech and MCA odd semester classes for 2nd year and onwards commenced from 12th July 2011.

Student Achievements



Aniruddha Ghosh and Arindam Sen, students of 3rd year ECE dept. bagged the first position in West Bengal and received prize money of Rs. 25000 in the "Wizards of Math" contest held on 26th September 2011. The competition was organized by T.I.M.E. and 37 colleges all over West Bengal participated in the event. It's a great achievement and we are proud of both of our students. Aniruddha and Arindam were also selected as the college toppers in the contest.

Orientation Program for Fresher's

The students for the first year B. Tech and MCA joined BPPIMT family on 16th August 2011. A fresher's orientation program for the new entrants was organized at the institute seminar hall in presence of the Principal, Academic Dean, Registrar, all HODs and the faculty members of the Institute. The students of each discipline were also taken to their respective departments where they were familiarized with the academic programmes of the individual departments and were introduced to the faculty members and technical staffs.

IET Student Chapter



The Electrical Engineering Department of BPPIMT in association with IET, Kolkata Chapter organized a lecture on "Erections and Commissioning of Turbo Generator in Super Thermal Power Plants", delivered by Mr. Jellar Rehman, Chief Commissioning Engineer of BHEL (Bharat Heavy Electrical Ltd.) on 4th Aug, 2011 at 2 PM in the seminar hall of the Institute. The talk was very educative and appreciated by the students and faculties alike.

Faculty Seminar Program "PROSARON"

Mrs. Jayeeta Chanda, Assistant Professor of the Dept. of Computer Science presented her talk on "Dynamic service choreography using context aware enterprise service bus" on 29th July 2011 at the Institute Seminar Hall. This is under the faculty seminar scheme of BPPIMT.

Foundation Day Celebration

The 13th foundation day of the Institute was celebrated on 11th September 2011. Photograph and statue of Late Shri B. P. Poddar, the founder of B. P. Poddar group was being garlanded. On this occasion we remember with profound respect and regards the founder of the group Late Shri B. P. Poddar who was not only an eminent industrialist but also an educationist. We are proud to be part of one of his groups. It will be our endeavor to give our sincere most efforts and hard work to see that our institute rises to higher stages.

Quiz Competition "GREY MATTER"

Annual quiz competition for the students "GREY MATTER" was held on 27th August 2011. Like previous years this annual competition was organized by the alumni of BPPIMT. The function was a grand success. The students as well as the staffs of the Institute enjoyed the event.

NATIONAL CONFERENCE ON EMERGING AREAS OF PHOTONICS AND ELECTRONICS (EAPE 2011)

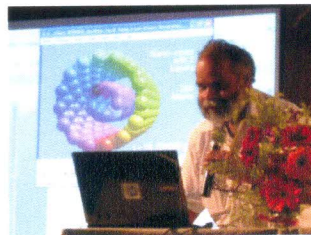
A national conference on Emerging Areas of Photonics and Electronics (EAPE 2011) has been jointly organized by the SPIE student chapter and the Department of ECE, B. P. Poddar Institute of Management & Technology. The conference was held during 15th-16th September 2011. Participants from all over India gathered over at BPPIMT for those two days. There was an overwhelming response from many top universities of India. Mr. Arun Poddar, Chairman, BPPIMT, Mr. Ayush Poddar, Vice Chairman, BPPIMT and Dr. Subir Choudhury, Director, BPPIMT were the patrons of the conference. Dr. Arun Majumdar, Sr. Scientist, Ridgecrest, California, USA served as the General Chair for the conference. The advisory committee consisted of eminent personalities from both International and National levels like Brno University, Cochin University, IITs, NPL, Calcutta University, Jadavpur University to name a few.



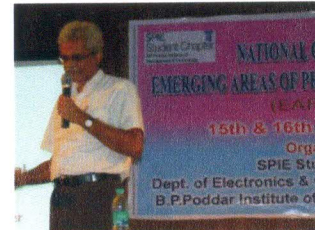
Lighting of diya



Dr. Arun K. Majumdar



Prof. V.P.N. Nampoori



Mr. Somnath Maity

The conference was inaugurated with the lighting of diya by Dr. Arun Kr. Majumdar (senior scientist, Ridgecrest USA), Prof. (Dr.) Sutapa Mukherjee (Principal, BPPIMT), Prof. (Dr.) S. C. Chakravarty (Professor Emeritus and ex-principal, BPPIMT), Prof. (Dr.) V. P. N. Nampoori (Professor Emeritus, International School of Photonics, Cochin University of Science & Tech.), Prof. (Dr.) B.N. Chatterji (Academic Dean, BPPIMT), Prof. (Dr.) Bhaskar Som (Professor BPPIMT) & Ms. Kabita Paul (Chapter President). The convener of the conference was Prof. (Dr.) Shila Ghosh.

From the vast pool of submitted research papers after a rigorous peer review process about twenty four communications were selected to be published in the Proceedings. After the inauguration of the conference on 15th September a technical session of two invited

talks by eminent academicians like Prof. Ajay Ghosh from the University of Calcutta and Prof. Alok Das from the Jadavpur University followed. Prof. Ghosh talked on Lasers and Prof. Das delivered his lecture on Optical Communication Network and Devices. In the next half two technical sessions were conducted where oral presentations of research articles were conducted.

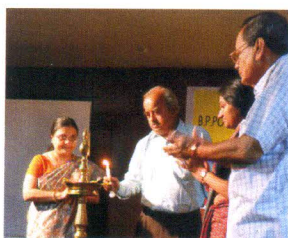
The 2nd day of the conference started with the invited talk of Prof. V. P. N. Nampoori from Cochin University on Biophotonics and Nanobiotechnology. Then there was a talk delivered by the general Manager of BSNL Mr. Somnath Maity on Optical Networking. It was followed by a talk of Dr. Arun Kr. Majumdar from Ridgecrest USA on Free-Space Laser Communications. In the next half there was another technical session where oral presentations of research papers were conducted. Finally the program ended on a high note with the valedictory session.

FEST WEEK

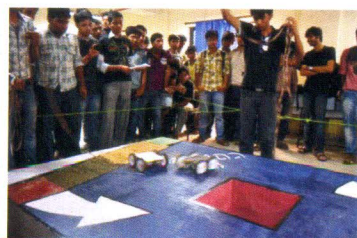
Under the patronage of the Management of B. P. Poddar Institute of Management and Technology a grand fest week was celebrated from 1st -7th September 2011. The fest week was inaugurated on 1st September 2011 at Axis Mall, Newtown Rajarhat. On the very first day there was a competition of the bands "Rockblitz". This was followed by the performance of the guest band "Underground Authority". On the next two days of the fest week, the annual inter-college technical fest *Techstorm 2.11* was held in the College campus. The grand cultural fest *Elixir 2011* followed the technical fest.

Techstorm 2.11

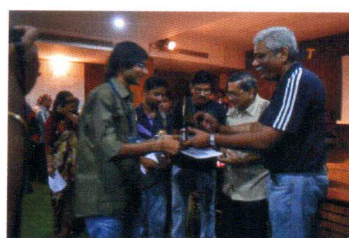
The event started with a spectacular inauguration ceremony thronged by the glitterati of the academia and the industry. The audience had the pleasure to savour the gracious presence of none other than the erudite Prof. Swapan Bhattacharyya, an eminent Professor of the Department of Computer Science and Engineering, Jadavpur University, who as the Chief Guest added immense value to the occasion by delivering an enlightening and encouraging speech. Among other dignitaries who graced the occasion were Prof. Sutapa Mukherjee, Principal, BPPIMT and Prof. B. N. Chatterji, Dean (Academic), BPPIMT and Prof. S. C. Chakravarty, Professor Emeritus, BPPIMT. Following his talk and with the adjournment of the Inauguration ceremony, the Chief Guest personally visited all the technical events where he not only appreciated the students for their innovative ideas but also gave invaluable inputs for improvement.



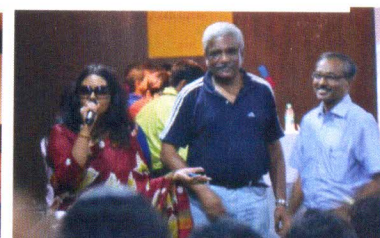
Inauguration of Techstorm 2.11



ROVERS going on



Prize Distribution Ceremony



Vote-of-Thanks

ROVERS...war of the Robots, the inter-college Robotics event took off immediately after the inauguration along with intra-college events like *NIRMAN* (Model Display), *OMEGATRIX* (Math Magic) *FANTA-C* (C-coding) and the preliminary rounds of *Virtual Combat* (*FIFA 2009* and *NFS Most Wanted*).

On the second day events like *ARCANIA*, the inter-college Quiz mania (Quiz Master Mr. Subhendu Dey) and *35 MM LIVE* (inter-college photography contest) along with the exhilarating *VIRTUAL COMBAT* (*FIFA 2009* and *NFS MOST WANTED*) added a whole new dimension to the definition of technological entertainment. A group of faculty and student members coordinated the whole event to success. The Prize distribution ceremony was honoured by the august presence of Prof. Bhabani Prasad Sinha.

Elixir 2011

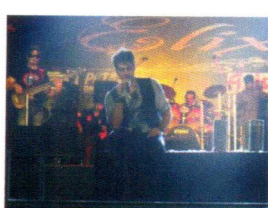
The cultural fest *Elixir 2011* followed the technical fest for the next three days from 5th -7th September. Different cultural events took place at the campus for the first two days. Singing, theatrics, dancing, instrumentals, three minutes to fame, recitation were the events where there was an overwhelming participation and enthusiasm within the students. The final day of Elixir 2011 was celebrated at Netaji Indoor Stadium. On 7th September the grand finale of some of the events were held at Netaji Indoor Stadium. There was an inter-college fashion show which received a lot of applause from the audience. The 2nd prize for the fashion show was bagged by the host institution. Around 7000 audiences were present on that day. This was followed by the live performances of two bands. Performance of *Fossils* was the star attraction of the day. Then the international band *Jal The Band* from Pakistan took the stage. It was a great attempt of BPPIMT to bring the two neighboring countries close to each other. Their performance stole the heart of the audience and the event concluded on a high note.



Fashion show in progress.



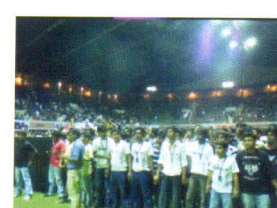
Fossils performing.



Jal The Band from Pakistan.



Performance of our students.



Audience enjoying

- **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members headed by Prof (Dr) N. K. Datta, with Prof. Emeritus Dr S.C. Chakravarty as Chief Editor, Prof (Dr.) Sutapa Mukherjee, Principal and Prof (Dr.) B.N. Chatterji, Dean as the Chief Advisors and Mr. Arijit Saha Assistant Professor as Editor of the Newsletter.
- **Call for Contributions:** Contribution for the Newsletter on the global and national news related to technical, economical, philosophical and general science etc. is solicited from all the members of the BPPIMT family and the students. The prospective contributors are requested to send their writings in about 200 words electronically to the mail address: newsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.